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 APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR Bernhard Kowalski	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,902		01/30/2004		INF-132	5709
48154	7590 12/29/2004			EXAMINER	
SLATER &	MATSI	L LLP	HO, TU TU V		
17950 PRES SUITE 1000	17950 PRESTON ROAD			ART UNIT	PAPER NUMBER
	DALLAS, TX 75252			2818	

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/766,902	KOWALSKI ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAIL INC DATE of the	Tu-Tu Ho	2818				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the d	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware	Responsive to communication(s) filed on 30 January 2004 and 11 November 2004. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/11/2004.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

Art Unit: 2818

DETAILED ACTION

Formal Matters

- 1. This application is in condition for allowance except for the following formal matters:
- a. The **oath** or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

Specifically in the instant case, the oath filed 11/11/2004 contains incorrect foreign priority information (four occurrences, 31/January/2003 instead of 31/January/2004 as filed.

b. Applicant is reminded of the proper language and format for an **abstract** of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns,"

"The disclosure defined by this invention," "The disclosure describes," etc.

In the instant case, replace "said" with "the" on line 2, "deep trenches a test" on line 3 should be "deep trenches. A test"; "deep trench With a test" on line 5 should be "deep trench.

With a test".

- c. Claim 1, line 5 from the last line, "comprises"; claim 14, line 1, "claim9" should be "claim 9".
- d. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Allowable Subject Matter

2. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fails to teach or render obvious an integrated circuit architecture with all exclusive limitations as recited in claims 1, 9, and 16, comprising a memory array having vertical FET selection transistors formed in active webs, a test structure integrated into the integrated circuit architecture, the test structure comprising, for forming a common connection of drain terminals of a plurality of vertical selection transistors, diagonally extended deep trenches filled with a conductive electrode material, formed between two adjacent laterally

Art Unit: 2818

offset vertical FET transistors, and buried strips forming drain electrodes of the vertical selection transistors at the intersection of the buried strip formed with the diagonally extended deep trench and the active webs.

As allowable subject matter has been indicated, applicant's reply must either comply with all formal requirements or specifically traverse each requirement not complied with. See 37 CFR 1.111(b) and MPEP § 707.07(a).

Any comments considered necessary by applicants should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Copies of the references are not being furnished with this Office Action per MPEP § 707.05(a).
- a. U.S. Patent 6,128,219 to Pio et al. discloses a test structure for a nonvolatile memory device.

Application/Control Number: 10/766,902

Art Unit: 2818

b. U.S. Patent 6,339,228 to Iyer at al. discloses a structure for measurement of

Page 5

DRAM cell strap leakage.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The

examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

177

Tu-Tu Ho

December 18, 2004

Supervisory Patent Examiner

Technology Center 2800